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(21)Application number : 04-298159 (71)Applicant : A TO Z TECHNOL LTD
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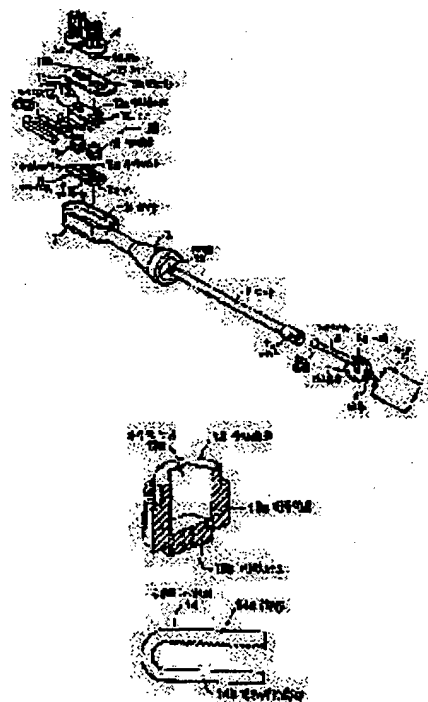
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(54) TOOTH BRUSH

(57)Abstract:

PURPOSE: To strengthen removing dental calculi by providing a transmission assembly vibrating two bristle holders, each with a carrier assembly capable of reciprocating together with the bristle holders and by vibrating a connector between the bristle holders and the brush head.

CONSTITUTION: Energizing a motor 5 reciprocates the bristle holders in the recess 3a of the brush head 3 via a transmission between the motor 5 and the bristle holders 4. Likewise, reciprocating the carrier assembly vibrates two bristle holders 4 of the gears 13 engaged with the geared legs 14a of the U-shape rack members 14 fixed in the brush head recess 3a around each axial line. Since these two bristle holders 4 are housed in a non-turning fashion inside the sockets 13c of the gears 13, respectively, they are clockwise turned during the forward stroke, while counterclockwise during the return stroke. The bristle holders 4 receive both the vibration and reciprocation motions likely as doing so to strengthen removing dental calculi.



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